

DOCUMENT RESUME

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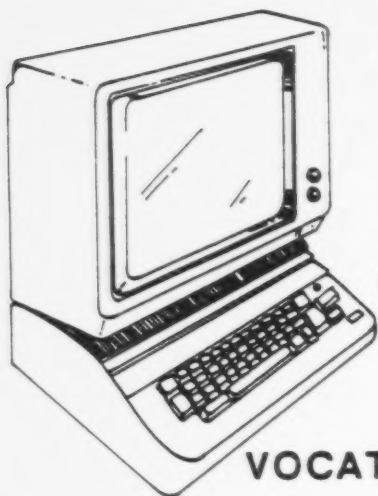
AUTHOR Rosenfeld, Vila M.; And Others
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ABSTRACT

This courseware evaluation rates the "Grab a Byte" program developed by the National Dairy Council. (The program--not included in this document--is divided into three sections: Grab-a-Grape uses a quiz-show format to examine students' knowledge of food groups; Nutrition Sleuth reinforces students' nutrient knowledge; and Have-a-Byte analyzes meals in terms of students' nutrient needs.) Part A describes "Grab a Byte" in terms of subjects (food and nutrition) and hardware requirements (Apple II and peripherals), indicates its suitability for 7th-10th grade individual or small group instruction, and lists accompanying materials (instructor and user guides, food list) and time estimate (25-40 minutes). Availability information includes cost (\$30.00) and contact address. Part B contains the evaluation criteria in eight categories; reviewer ratings appear as yes, somewhat, no, and not applicable, with explanatory comments. Part C summarizes the evaluation. The strengths of this program are its interesting, easy-to-follow game format and topic. A weakness is that answers are provided too readily in the Nutrition Sleuth section. Summary ratings in the eight categories include the following: subject matter, technical presentation, student interaction, and program interaction--yes; documentation--somewhat; and student evaluation, work behaviors and application programs--not applicable. The final rating highly recommends this courseware as a fun way to learn sound nutrition information. (SK)

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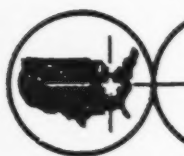
GRAB A BYTE

COURSEWARE EVALUATION FOR VOCATIONAL AND TECHNICAL EDUCATION

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The Courseware Evaluation: Form and Guide used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.



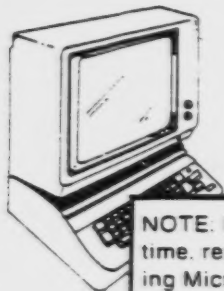
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COURSEWARE EVALUATION FORM

Vila M. Rosenfeld, Leila G. Halsey

NOTE: If you are using this form for the first time, read the instructions in the accompanying Microcomputer Courseware Evaluation Guide.

Evaluator Renny M. Cannon
Position Coordinator, Associate Professor, Lecturer
Date March 27, 1986

Part A: Courseware Description

Part A: Courseware Description

In the following sections, record descriptive information about the courseware that you are evaluating.

I. IDENTIFICATION

Program Title Grab A Byte Date 1983
Series Title _____
Vocational Area(s) Home Economics, Health
Subject Area(s) Food and Nutrition
Topic(s) Nutrition
Developing Agency National Dairy Council
Street or P.O. Box 6300 North River Road
City Rosemont, State IL Zip 60018 Phone (312) 696-1020
Author(s) _____
Programmer(s) _____

II. HARDWARE REQUIREMENTS

Microcomputer* Apple II, IIe, IIc
(brand/model)

K Memory Required 48K
(number)

Medium of Transfer (include number of each):

☐ Tape cassette ☒ 5 1/4" Flexible disk ☐ Other _____
☐ ROM cartridge ☐ 8" Flexible disk _____
(specify)

Programming Language _____ DOS Specifications 3.3

Other Specifications Color monitor and printer optional. Specify II, IIe, or IIc.

Peripherals Needed (check all that apply):

☐ Color monitor	☐ Modem	☐ Clock
☒ One disk drive	☐ Mouse	☐ Video disk
☐ Two disk drives	☐ Printer	☐ Touch screen
☐ Plotter	☐ Graphics tablet	☐ Ten-key number pad
☐ Game paddle(s)	☐ Light pen	☐ Other _____
☐ Joystick(s)	☐ Voice/sound instrument	(specify)

*NOTE: Provide the above information for any additional hardware on which this program can be used. _____

III. PROGRAM FEATURES (check all that apply):

- ☐ Network version provided
☐ Multiple copies required
☐ Program can be modified
☐ Program protected
☐ Data disk needed
☐ Field-test data available

IV. INSTRUCTIONAL SETTING

Program mode (check all that apply):

- ☐ Application
☐ Drill and practice
☒ Educational gaming
☐ Simulation
☐ Tutorial
☐ Other _____ (specify)

Student Target Population (check all that apply):

- ☒ Regular
☐ Disadvantaged
☐ Handicapped
☐ Limited English
☐ Bilingual
☐ Gifted

Grade Level (check all that apply):

- ☐ K-6
☒ 7-8
☒ 9-10
☐ 11-12
☐ 13-14
☐ Adult
☐ Higher Education

Instructional Grouping (check all that apply):

- ☒ Individual
☒ Small group (up to 4)
☐ Large group (4 or more)
☐ competitive interaction
☐ cooperative interaction

Prerequisite Student Skills (specify) _____

Accompanying Materials (specify types):

Documentation Instructor's Guide; User's GuideStudent support materials Food List

Teacher support materials _____

Correlated materials _____

Estimated Time for Use 25 to 40 minutes

V. AVAILABILITY

☐ Free _____
 (copies)

☒ Sale \$ 30.00
☐ Loan _____
 (time)

☐ Rent \$ _____ (time)

☐ Duplication (requestor supplies disk)
Copyright Restrictions (explain) 1983 National Dairy Council. All rights reserved.

Back-up Policy (explain) _____

Preview Policy (explain) _____

Update Policy (explain) _____

Contact National Dairy CouncilStreet or P.O. Box 6300 North River RoadCity Rosemont, State IL Zip 60018 Phone (312) 696-1020

Part B: Courseware Evaluation Criteria

Indicate the applicability of each section to the courseware being evaluated by checking either "___ A" (applicable) or "___ N/A" (not applicable). If a section is not applicable, proceed to the next section. If a section is applicable, check the column that indicates how well the courseware meets each criterion. Include any comments.

	YES	SOME- WHAT	NO	N/A	COMMENTS
I. SUBJECT MATTER <u>X</u> A ___ N/A					
1. Subject matter has educational value.	X				
2. Student objectives are stated.			X		
3. Subject matter is accurate.	X				
4. Subject matter is logically presented.	X				
5. Subject matter is free of race, ethnic, sex, and other stereotypes.	X				
6. Subject matter is on the level of the students.	X				
7. Information and skills presented are comparable to those used in the home, business, or industry.		X			
8. Subject matter motivates students to learn.	X				
9. Subject matter is reviewed and summarized.	X				
10. Program utilizes the unique capabilities of the microcomputer to present the subject matter.	X				
II. TECHNICAL PRESENTATION <u>X</u> A ___ N/A					
1. Program is free of technical problems.	X				
2. Presentation rate is adequate to maintain interest.	X				
3. Information on the screen is easy to read.	X				
4. Program is free of spelling and grammatical errors.	X				
5. Program instructions are easy to follow.	X				
6. Color increases the instructional value of the program.					Color monitor not available for reviewers.
7. Audio increases the instructional value of the program.	X				Optional
8. Graphics increase the instructional value of the program.	X				

	YES	SOME- WHAT	NO	N/A	COMMENTS
III. STUDENT INTERACTION <u>X</u> A ___ N/A					
1. Students can use the program with minimal assistance.	X				
2. Students are actively involved in the program.	X				
3. Students control the pace of the program.	X				
4. Students can access the program "menu(s)" to change activities.	X				
5. Students are permitted to change answers.			X		
6. Methods of responding correspond to the level of the program.	X				
7. Students' errors of entry are processed so that the program continues to run.	X				
8. Students can access available "help" and "hint" options at any time.			X		
9. Students can enter or exit the program as desired.			X		
10. Students control the sequence of the program.	X				
IV. PROGRAM INTERACTION ___ X A ___ N/A					
1. Feedback is immediate.	X				
2. Cues and prompts are provided to assist students in answering correctly.	X				
3. Feedback reinforces the correct responses.	X				
4. Feedback is nonthreatening.	X				
5. Program helps students understand wrong answers.	X				
6. Program gives the correct answer after a reasonable number of tries.	X				
7. Positive reinforcement is varied.			X		
8. Program has the ability to branch/loop depending upon students' performance.				X	
9. Feedback is on the level of the student.	X				
V. STUDENT EVALUATION ___ A <u>X</u> N/A					
1. Evaluation provides a means for measuring attainment of objectives.					
2. Program reports which items were missed and which were correct.					

	YES	SOME- WHAT	NO	N/A	COMMENTS
V. STUDENT EVALUATION—Continued					
3. Individual student performance results are available to the teacher.					
4. Class performance results are available to the teacher.					
5. Program provides for printed copies of evaluations.					
6. Test item formats are suited to the material being tested.					
7. Test items are clearly stated.					
8. Test item bank is provided.					
VI. DOCUMENTATION <u>X</u> A <u> </u> N/A					
1. Documentation is easy to understand.	X				
2. Documentation is accurate.	X				
3. Student objectives are stated.			X		
4. Underlying concepts are outlined.		X			
5. Skills to be developed are specified.		X			
6. Procedures for integrating the program into the curriculum are provided.		X			
7. Follow-up activities are suggested.	X				
8. Documentation explains the intended use of support materials.		X			
9. Sufficient information is provided to operate the program.	X				
VII. WORK BEHAVIORS <u> </u> A <u>X</u> N/A					
1. Program helps students identify their vocational skills.					
2. Program promotes pride in work.					
3. Program promotes productivity.					
4. Program encourages good work habits.					
5. Problem solving is encouraged.					
6. Program promotes good human relations skills.					
7. Program provides an opportunity for work satisfaction and self-fulfillment.					
8. Program encourages creativity.					

	YES	SOME- WHAT	NO	N/A	COMMENTS
VIII. APPLICATION PROGRAMS ___ A <u>X</u> N/A (to be completed for application programs only)					
1. Program is adaptable to the needs of the student.					
2. Commands are easily remembered.					
3. Information is easily manipulated.					
4. Corrections are easy to make.					
5. Program includes all necessary variables.					
6. Program performs reliably.					
7. Program efficiently achieves its intended purpose.					
8. Trial data are supplied for learning to run the program.					
9. Program provides for use of printer when hard copy of information is advantageous.					
10. Program moves from operation to operation efficiently.					
11. Program is compatible with other application programs.					
12. Program has a supplementary tutorial program available.					

Part C: Courseware Evaluation Summary

1. SUMMARY COMMENTS

Identify strengths of the courseware: Interesting, easy to follow game format. Games vary in complexity. Topic is good.

Identify weaknesses of the courseware: In Nutrition Sleuth, the answers are provided too readily.

Describe uses of the courseware in an instructional setting:

2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the appropriate column: if not applicable, check N/A.

	YES	SOME- WHAT	NO	N/A
I. SUBJECT MATTER: Content has educational value.	x			
II. TECHNICAL PRESENTATION: Program is free of malfunctions.	x			
III. STUDENT INTERACTION: Students are actively involved with the program.	x			
IV. PROGRAM INTERACTION: Feedback is effectively employed.	x			
V. STUDENT EVALUATION: Evaluation adequately measures student progress.				x
VI. DOCUMENTATION: Documentation is sufficient to run the program.		x		
VII. WORK BEHAVIORS: Program assists students in developing positive work attitudes and skills.				x
VIII. APPLICATION PROGRAMS: Program performs the task for which it is intended.				x

3. FINAL RECOMMENDATION

Check your recommendation for the courseware and explain your reasons below.

☒ Highly recommend
☐ Recommend

☐ Recommend with reservations
☐ Do not recommend

The program provides a fun way to learn sound nutrition information. It appeals to adults and youth.

Part C: Courseware Evaluation Summary

TO ORDER ADDITIONAL COPIES OF THIS PUBLICATION USE—	ORDER NUMBER	PRICE
• Microcomputer Courseware Evaluation: Form and Guide for Vocational and Technical Education	SN 44	\$2.50

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**Microcomputer Courseware Evaluation Guide: Form and Guide
for Vocational and Technical Education**

Developed by:
Shirley A. Chase
Ruth Gordon
Richard C. Makin

For Further Information Contact:
The Program Information Office
National Center for Research in Vocational Education
The Ohio State University
1960 Kenny Road
Columbus, Ohio 43210
800-848-4815 or 614-486-3655 in Ohio